

COPY

## SEQUENCE LISTING

<110> Itoh, Nobuyuki  
Kavanaugh, W. Michael

<120> HUMAN FGF-21 GENE AND GENE EXPRESSION  
PRODUCTS

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<140> 09/715,805

<141> 2000-11-16

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Leu Trp Val Arg Leu Leu Leu Ala Val Phe Leu Leu Gly Val Tyr Gln  
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gca tac ccc atc cct gac tcc agc ccc ctc ctc cag ttt ggg ggt caa 145  
Ala Tyr Pro Ile Pro Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln  
30 35 40

gtc cgg cag agg tac ctc tac aca gat gac gac caa gac act gaa gcc 193  
Val Arg Gln Arg Tyr Leu Tyr Thr Asp Asp Asp Gln Asp Thr Glu Ala  
45 50 55 60

cac ctg gag atc agg gag gat gga aca gtg gta ggc gca gca cac cgc 241  
His Leu Glu Ile Arg Glu Asp Gly Thr Val Val Gly Ala Ala His Arg  
65 70 75

agt cca gaa agt ctc ctg gag ctc aaa gcc ttg aag cca ggg gtc att 289  
Ser Pro Glu Ser Leu Leu Glu Leu Lys Ala Leu Lys Pro Gly Val Ile  
80 85 90

caa atc ctg ggt gtc aaa gcc tct agg ttt ctt tgc caa cag cca gat 337  
Gln Ile Leu Gly Val Lys Ala Ser Arg Phe Leu Cys Gln Gln Pro Asp

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Gly Ala Leu Tyr Gly Ser Pro His Phe Asp Pro Glu Ala Cys Ser Phe			
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aga gaa ctg ctg ctg gag gac ggt tac aat gtg tac cag tct gaa gcc			433
Arg Glu Leu Leu Leu Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala			
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cat ggc ctg ccc ctg cgt ctg cct cag aag gac tcc cca aac cag gat			481
His Gly Leu Pro Leu Arg Leu Pro Gln Lys Asp Ser Pro Asn Gln Asp			
	145	150	155
gca aca tcc tgg gga cct gtg cgc ttc ctg ccc atg cca ggc ctg ctc			529
Ala Thr Ser Trp Gly Pro Val Arg Phe Leu Pro Met Pro Gly Leu Leu			
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cac gag ccc caa gac caa gca gga ttc ctg ccc cca gag ccc cca gat			577
His Glu Pro Gln Asp Gln Ala Gly Phe Leu Pro Pro Glu Pro Pro Asp			
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Val Gly Ser Ser Asp Pro Leu Ser Met Val Glu Pro Leu Gln Gly Arg			
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Ser Pro Ser Tyr Ala Ser *			
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 Tyr Leu Tyr Thr Asp Asp Asp Gln Asp Thr Glu Ala His Leu Glu Ile  
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 Arg Glu Asp Gly Thr Val Val Gly Ala Ala His Arg Ser Pro Glu Ser  
 65 70 75 80  
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 85 90 95  
 Val Lys Ala Ser Arg Phe Leu Cys Gln Gln Pro Asp Gly Ala Leu Tyr  
 100 105 110  
 Gly Ser Pro His Phe Asp Pro Glu Ala Cys Ser Phe Arg Glu Leu Leu  
 115 120 125  
 Leu Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His Gly Leu Pro

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Ile	Pro	Asp	Ser	Ser	Pro	Leu	Leu	Gln	Phe	Gly	Gly	Gln	Val	Arg	Gln		
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 Lys Thr Ser Arg Phe Leu Cys Gln Arg Pro Asp Gly Ala Leu Tyr Gly  
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 Ser Leu His Phe Asp Pro Glu Ala Cys Ser Phe Arg Glu Leu Leu Leu  
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 Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His Gly Leu Pro Leu  
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 Gln Ser Val Ser Asp Glu Asp Pro Leu Phe Leu Tyr Gly Trp Gly Lys  
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 Ile Thr Arg Leu Gln Tyr Leu Tyr Ser Ala Gly Pro Tyr Val Ser Asn  
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 Cys Phe Leu Arg Ile Arg Ser Asp Gly Ser Val Asp Cys Glu Glu Asp  
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 Ile Ala Ile Lys Asp Val Ser Ser Val Arg Tyr Leu Cys Met Ser Ala  
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 Phe Arg Glu Glu Met Asp Cys Leu Gly Tyr Asn Gln Tyr Arg Ser Met  
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 Leu Glu Ser Asp Ser Met Asp Pro Phe Arg Met Val Glu Asp Val Asp  
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&lt;213&gt; Homo sapiens

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 His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg His Leu Tyr  
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 Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly Val His  
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<213> Unknown

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<223> Residues which contain the anitgenic determinant
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<213> Unknown

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<223> Preferred thrombin cleave site.

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Leu Val Pro Arg Gly
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<210> 13
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<213> Unknown

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<223> Residues which bind to paramagnetic streptavidin
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Ser Ala Trp Arg His Pro Gln Phe Gly Gly
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 Leu Pro Met Leu Pro Met  
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 Arg Pro Asp Gly Tyr Asn  
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<210> 17  
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<400> 17  
 His Phe Leu Pro Met Leu  
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